INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/014386

	ATION OF SUBJECT MATTER H01L27/148, H04N5/335, G01J1/0	02	
According to Inte	rnational Patent Classification (IPC) or to both national	classification and IPC	
B. FIELDS SEA		10.11	
Int.Cl ⁷	entation searched (classification system followed by class H01L27/148, H04N5/335, G01J1/0		
Jitsuyo Kokai Ji	tsuyo Shinan Koho 1971-2004 Tor	suyo Shinan Toroku Koho oku Jitsuyo Shinan Koho	1996-2004
Electronic data b	ase consulted during the international search (name of da	na base and, where practicable, scalen to	inis uscu)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.
X Y	JP 55-165687 A (Fujitsu Ltd.) 24 December, 1980 (24.12.80), Full text; all drawings (Family: none)	•	1 3
Y	JP 53-27382 A (N.V. Philips' Gloeilampenfabrieken), 14 March, 1978 (14.03.78), Full text; all drawings (Family: none)		1-3
Y .	JP 57-105893 A (Tokyo Shibaur Ltd.), 01 July, 1982 (01.07.82), Full text; all drawings (Family: none)	ra Electric Co.,	1-3
× Further do	ocuments are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search 09 November, 2004 (09.11.04) "T" later document published after the international fil date and not in conflict with the application but cit the principle or theory underlying the invention date and not in conflict with the application but cit the principle or theory underlying the invention date and not in conflict with the application but cit the principle or theory underlying the invention date and not in conflict with the application but cit the principle or theory underlying the invention date and not in conflict with the application but cit the principle or theory underlying the invention date and not in conflict with the application but cit the principle or theory underlying the invention document is taken alone document of particular relevance; the claimed invention of the involve an inventive step when combined with one or more other such documents being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international search report 30 November, 2004 (30.11)		cation but cited to understand invention claimed invention cannot be iddered to involve an inventive claimed invention cannot be step when the document is a documents, such combination is art family	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/014386

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-75090 A (Hamamatsu Photonics Kabushiki Kaisha), 26 March, 1993 (26.03.93), Full text; all drawings (Family: none)	3
		,
		·
	*	·